TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-26-03** **Date: 29-04-2017**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements & Construction of Drainage works pipeline road in Dasarahalli in ward no.15 Dasarahalli Sub Division.
Agency	:	Sri. Nagaraja Hosur, No.133, 1st Main, 14th Cross Soundarya layout, Siddenahalli, Bengalore.
Customer's Reference	:	EE/DD/WO/46/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	26-04-17
Sample ID No	:	2017-04-26-03-02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-04-2017 to 29-04-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	655	655	4.4	95.6	90-100
3	20 mm	7658	8313	55.4	44.6	30-70
4	10 mm	3576	11889	79.3	20.7	10-35
5	4.75 mm	2951	14840	98.9	1.1	0-5
6	Pan	160	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-04-26-03** **Date: 29-04-2017**

Sample ID No : 2017-04-26-03-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–

Note:

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Prepared by
Harshitha

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Authorized Signatory
Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-04-26-03** **Date: 29-04-17**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements & Construction of Drainage works pipeline road in Dasarahalli in ward no.15 Dasarahalli Sub Division.

Agency : Sri. Nagaraja Hosur, No.133, 1st Main, 14th Cross Soundarya layout, Siddenahalli, Bengalore.

Customer's Reference : EE/DD/WO/46/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-04-17

Sample ID No : 2017-04-26-03-03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 26-04-2017 to 29-04-2017

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	41	41	4.1	95.9	90-100	90-100	90-100	95-100
3	2.36 mm	152	193	19.3	80.7	60-95	75-100	85-100	95-100
4	1.18 mm	223	416	41.6	58.4	30-70	55-90	75-100	90-100
5	600 micron	143	559	55.9	44.1	15-34	35-59	60-79	80-100
6	300 micron	205	764	76.4	23.6	5-20	8-30	12-40	15-50
7	150 micron	175	939	93.9	6.1	0-10	0-10	0-10	0-15
8	Pan	61	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-04-26-03**

Sample ID No : 2017-04-26-03-03

Date: 29-04-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.23	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron	6.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-26-03** **Date: 29-04-2017**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements & Construction of Drainage works pipeline road in Dasarahalli in ward no.15 Dasarahalli Sub Division.
Agency	:	Sri. Nagaraja Hosur, No.133, 1st Main, 14th Cross Soundarya layout, Siddenahalli, Bengalore.
Customer Reference	:	EE/DD/WO/46/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-04-17
Sample ID No	:	2017-04-26-03-02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-04-2017 to 29-04-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	201	201	4.02	96.0	90-100
3	10 mm	2698	2899	57.98	42.0	25-55
4	4.75 mm	1982	4881	97.62	2.4	0-10
5	Pan	119	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-04-26-03** **Date: 29-04-2017**

Sample ID No : 2017-04-26-03-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.8	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.59	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	21.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-04-26-03** **Date: 30-04-2017**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements & Construction of Drainage works pipeline road in Dasarahalli in ward no.15 Dasarahalli Sub Division.
Agency	:	Sri. Nagaraja Hosur, No.133, 1st Main, 14th Cross Soundarya layout, Siddenahalli, Bengalore.
Customer's Reference	:	EE/DD/WO/46/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-04-17
Sample ID No	:	2017-04-26-03-01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	27-04-2017 to 30-04-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.16	–
2	Finess by Air permeablity method (m2/kg, Min)	289.6	225m^2/kg, Min
3	Density (gm/cc)	3.54	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	205 minutes	Not less than 30 minutes
6	Final Setting time	325 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-04-26-03** **Date: 23-05-2017**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements & Construction of Drainage works pipeline road in Dasarahalli in ward no.15 Dasarahalli Sub Division.
Agency		Sri. Nagaraja Hosur, No.133, 1st Main, 14th Cross Soundarya layout, Siddenahalli, Bengalore.
Customer's Reference	:	EE/DD/WO/46/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-04-17
Sample ID No	:	2017-04-26-03/01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	27-04-2017 to 23-05-2017

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-02-03**	**Date: 02-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements & Construction of Drainage works pipeline road in Dasarahalli in ward no.15 Dasarahalli Sub Division.	
Agency	:	Sri. Nagaraja Hosur, No.133, 1st Main, 14th Cross Soundarya layout, Siddenahalli, Bengalore.	
Customer's Reference	:	EE/DD/WO/46/17-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	02-05-17	
Sample ID No	:	2017-05-02-03/01	
Sample Type	:	Indus	
Reference to BIS codes	:	IS 1786-2008, IS 1608-2005(RA 2011), IS 1599-2012	
Date of test:	:	02-05-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe550	8mm	0.393	568	675	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe550	8mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-04-02-03** **Date: 02-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements & Construction of Drainage works pipeline road in Dasarahalli in ward no.15 Dasarahalli Sub Division.
Agency	:	Sri. Nagaraja Hosur, No.133, 1st Main, 14th Cross Soundarya layout, Siddenahalli, Bengalore.
Customer's Reference	:	EE/DD/WO/46/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-17
Sample ID No	:	2017-05-02-03/02
Sample Type	:	Indus
Reference to BIS codes	:	IS 1786-2008, IS 1608-2005(RA 2011), IS 1599-2012
Date of test:	:	02-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe550	10mm	0.611	572	698	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe550	10mm	Satisfactory	Satisfactory

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-09-01**

Date: 09-05-17

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements & Construction of Drainage works pipeline road in Dasarahalli in ward no.15 Dasarahalli Sub Division.

Agency : Sri. Nagaraja Hosur, No.133, 1st Main, 14th Cross Soundarya layout, Siddenahalli, Bengalore.

Customer's Reference : EE/DD/WO/46/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-05-17

Sample ID No : 2017-05-09-01/01

Customer ID : Cement Concrete Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Road	M20	02/05/2017	09/05/2017	149.87 X 151.05 X 151.22	22638	8.198	396.2	17.5	17.9
2	Cement Concrete Road	M20	02/05/2017	09/05/2017	150.87 X 149.83 X 150.33	22605	8.138	413.7	18.3	
3	Cement Concrete Road	M20	02/05/2017	09/05/2017	150.63 X 150.22 X 151.29	22628	8.183	402.8	17.8	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-05-30-02

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore. **Date: 30-05-17**

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements & Construction of Drainage works pipeline road in Dasarahalli in ward no.15 Dasarahalli Sub Division.

Agency : Sri. Nagaraja Hosur, No.133, 1st Main, 14th Cross Soundarya layout, Siddenahalli, Bengalore.

Customer's Reference : EE/DD/WO/46/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-05-17

Sample ID No : 2017-05-30-02/01

Customer ID : Cement Concrete Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Road	M20	02/05/2017	30/05/2017	150.19 X 150.29 X 150.72	22572	8.201	523.7	23.2	23.7
2	Cement Concrete Road	M20	02/05/2017	30/05/2017	150.11 X 150.04 X 150.76	22523	8.158	547.3	24.3	
3	Cement Concrete Road	M20	02/05/2017	30/05/2017	150.83 X 150.98 X 150.37	22772	8.157	537.4	23.6	

Note:
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Prepared by
Harsitha

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಬಾಗಲಗುಂಟೆ, ಬೆಂಗಳೂರು
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-09-01**

Date: 09-05-17

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements & Construction of Drainage works pipeline road in Dasarahalli in ward no.15 Dasarahalli Sub Division.

Agency : Sri. Nagaraja Hosur, No.133, 1st Main, 14th Cross Soundarya layout, Siddenahalli, Bengalore.

Customer's Reference : EE/DD/WO/46/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-05-17

Sample ID No : 2017-05-09-01/02

Customer ID : Cement Concrete Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Road	M20	02/05/2017	09/05/2017	149.35 X 148.75 X 149.49	22216	8.14	399.9	18.0	17.8
2	Cement Concrete Road	M20	02/05/2017	09/05/2017	150.2 X 151.2 X 149.85	22710	8.165	415.6	18.3	
3	Cement Concrete Road	M20	02/05/2017	09/05/2017	149.5 X 150.1 X 151.1	22440	8.09	386.0	17.2	

Note:
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-30-02** **Date: 30-05-17**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements & Construction of Drainage works pipeline road in Dasarahalli in ward no.15 Dasarahalli Sub Division.

Agency : Sri. Nagaraja Hosur, No.133, 1st Main, 14th Cross Soundarya layout, Siddenahalli, Bengalore.

Customer's Reference : EE/DD/WO/46/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-05-17

Sample ID No : 2017-05-30-02/02

Customer ID : Cement Concrete Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Concrete Road	M20	02/05/2017	30/05/2017	149.65 X 148.40 X 150.42	22208	8.135	361.4	23.7	23.8
2	Cement Concrete Road	M20	02/05/2017	30/05/2017	151.20 X 149.35 X 151.35	22582	8.170	371.8	24.1	
3	Cement Concrete Road	M20	02/05/2017	30/05/2017	151.45 X 150.40 X 151.80	22778	8.165	379.6	23.6	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-09-01**

Date: 09-05-17

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements & Construction of Drainage works pipeline road in Dasarahalli in ward no.15 Dasarahalli Sub Division.

Agency : Sri. Nagaraja Hosur, No.133, 1st Main, 14th Cross Soundarya layout, Siddenahalli, Bengalore.

Customer's Reference : EE/DD/WO/46/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-05-17

Sample ID No : 2017-05-09-01/03

Customer ID : Cement Concrete Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Road	M20	02/05/2017	09/05/2017	149.65 X 151.20 X 149.30	22627	8.143	411.8	18.2	17.9
2	Cement Concrete Road	M20	02/05/2017	09/05/2017	151.30 X 150.35 X 150.45	22748	8.168	409.5	18.0	
3	Cement Concrete Road	M20	02/05/2017	09/05/2017	150.40 X 151.37 X 149.85	22766	8.194	400.7	17.6	

Note:
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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ದಾಸರಹಳ್ಳಿ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-30-02** **Date: 30-05-17**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements & Construction of Drainage works pipeline road in Dasarahalli in ward no.15 Dasarahalli Sub Division.

Agency : Sri. Nagaraja Hosur, No.133, 1st Main, 14th Cross Soundarya layout, Siddenahalli, Bengalore.

Customer's Reference : EE/DD/WO/46/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-05-17

Sample ID No : 2017-05-30-02/03

Customer ID : Cement Concrete Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Road	M20	02/05/2017	30/05/2017	149.40 X 150.30 X 150.90	22455	8.167	529.9	23.6	23.5
2	Cement Concrete Road	M20	02/05/2017	30/05/2017	148.30 X 151.65 X 151.45	22490	8.174	519.5	23.1	
3	Cement Concrete Road	M20	02/05/2017	30/05/2017	149.45 X 151.80 X 151.80	22687	8.194	539.9	23.8	

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-04-26-03**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements & Construction of Drainage works pipeline road in Dasarahalli in ward no.15 Dasarahalli Sub Division.
Agency	:	Sri. Nagaraja Hosur, No.133, 1st Main, 14th Cross Soundarya layout, Siddenahalli, Bengalore.
Customer's Reference	:	EE/DD/WO/46/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-04-17
Sample ID No	:	2017-04-26-03-04
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	27-04-2017 to 2-05-2017

Date: 02-05-17

Sl. No.	Identification Mark	Diameter of the core (mm)	Height of the core (mm)	Weight of the core (mm)	Area (Sq.mm)	Failure Load (KN)	Core Compressive strength (N/mm^2)	Corrected Cylinder Compressive strength (N/mm^2)	Equivalent Cube Compressive strength (N/mm^2)
1	Cover Slab-1	75.11	100.48	1.116	4430	95.9	21.6	20.1	25.2
2	Cover Slab-2	75.19	100.52	1.122	4439	99.1	22.3	20.8	26.0
3	Cover Slab-3	75.12	100.51	1.118	4431	96.7	21.8	20.3	25.4

Note:
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Harshitha

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